

Joe,
please find below the minutes of our meeting last week. Please feel free to add or correct as needed.
Best regards,
Carsten

Nucleonica meeting at ITU in Karlsruhe

24.1.2007

Dokumenta/Dialogika: Henning Fries, Christian Lambert, Carsten Grammes
ITU: Joe Magill, Jean Galy, Raymond Dreher and later Mustafa Tufan, David Hamilton, Christophe Normand

Meeting starts delayed at about 11:30 because of traffic jam around Karlsruhe (sorry for that!).

1. Discussion about Hardware/Software requirements. Dialogika recommends to start as quickly as possible even if that should not provide the best solution. It is important to get user feedback to properly prioritize the planned implementation tasks. Dialogika recommends to start with a commercial root-server as offered by 1&1 or others and later on to switch to a system with better service facilities if available.

2. Technical discussion about document sent by ITU

Main webpage - 4:

automatic opening of subpage will be postponed or canceled. It could lead to longer page loading times for a majority of users.

Main webpage - 11:

Dynamic logo. ITU wishes sth. similar to the Mathematica web page. Supernova explosion condenses to nuclide chart. During the discussion it becomes clear that Nucleonica needs a corporate identity. The currently used atom is not specific enough. It would be a good idea to start with the current Nuclides.net logo and modify it properly (e.g. in the direction "application, calculation, web") to form the new logo but make the transition from the well-known Nuclides.net transparent to the user. ITU will think about it.

Nucleonica - 1:

Nuclear News. Joe proposes to include nuclear news also on the portal page for logged on users at the place where the searchable databases were before. In the discussion however a consensus was found that an application user is interested in data and application, not in news, that's more a web topic. However one could here give the user some links that he could open in an external newsreader. It would be more or less a direct link to the source of nuclear news.

Dosimetry - 5:

There might be a problem with the used algorithm. ITU has to solve the physical/mathematical problem and give the solution to Dialogika for implementation.

Preferences - 1:

Number of significant digits. Results from application calculations normally aren't better than 3 significant digits. Exceptions will be given to Dialogika. Data presented directly from the databases have to be presented in the available significance, this holds true especially for gamma lines.

Preferences - 3:

It is agreed to use only the decimal point instead of the comma for output purposes. This american/english style is well known in the scientific community and is also understood in other countries.

Average cross-sections - 3:

The top left table field has double functionality: row heading and column heading. Dialogika will find a solution for that. The terms "Resonant Integral" and "Maxwell Average" shall not be abbreviated.

Average cross-sections - 5:

See Preferences - 3.

Korigen: A new version is available but not yet final. We will do nothing for this applications but wait for the new version.

Nuclide mixtures - 1:

by default, the columns "Branching ratios..." will not be displayed. There will be a checkbox "show details" which will make them available again.

Nuclide mixtures - 2:

By default the decay engine uses a MinProd value of 1E-3. For decay of nuclide mixtures it shall use 10% of the smallest value of "branching for decay" as the default setting in order to ensure full decay calculation. The user still has the possibility to change this in the decay application.

Nuclide mixtures - 4:

The user interface will be redesigned according to the proposal. The Name/Element section will be greyed out if not in edit mode.

Nuclide mixtures - 11: not necessary

The user shall be able to save edit and delete all existing nuclide mixtures. For a new user, predefined mixtures will be copied to user space. From then on, the user can edit or delete them as he wants. There will be a button "restore predefined nuclides" which re-copies the predefined ones to the user space (potentially overwriting modified ones).

In the portal, "my nuclide libraries" shall be replaced by "my nuclide mixtures".

The individual database search links on the portal page will be canceled.

Reference data - 1:

Nuclide Selector: The update button will be canceled. The mass selector always starts with an empty entry. The new nuclide will be selected on having selected a mass.

Datasheet - 9:

Put units always in cells. Here no sorting problem should occur.

Search databases: A bug occurred with a window remaining open.

Derived data - 1:

This is an important change. Use the dosimetry module with 1m of air.

Nuclide Explorer - 1: Postponed, not too important

Nuclear media monitor -2:

Postponed. Jean will first discuss with Ispra the possibilities of multiple language selections.

Administration - 4:

Will be implemented.

Christian presents a demonstration of the Nucleonica Wiki capabilities and gives an overview of the most important administration issues. Raymond will make himself familiar with it.

Origin Pro: Dialogika and ITU will check for available alternatives. One product discussed was xmgrace (freeware project).

Financial discussion:

We discuss the possibilities of continuing the contract: extension by up to 50% of the current contract, foreseen prolongation and the use of a framework contract, Dokumenta has with DIGIT.

Future projects:

Electronic version of Karlsruhe Nuclide Chart. The KNC has its 50th anniversary next year and it is planned to produce an electronic version for this date. The software should be able to produce printer ready documents for the wallchart and foldchart editions as well as an interactive version (webbased, similar to nuclide explorer). It uses however a totally different database, Christophe is busy creating the database (currently everything is typed in by hand).

www.nea.fr/janis is another application providing similar data than Nucleonica (Java-applet).

Webcrawler: It looks like that google news could cover most of the tasks needed (maybe better than ITU), they just would need the sources and filter rules. The current crawler currently is a one-man-show because Ken Blackler left the team.